

CERTIFIED AGGREGATE TECHNICIAN TRAINING COURSE AGENDA

Title – Time	Subjects	Instructor	Reference
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Monday Morning
Moderator: Ron Walker

Introduction

10:00 to 10:15	Opening Comments Agenda/Manual Update	Ron Walker	
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CAPP Technician Program Responsibilities

10:15 to 10:30	Industry Perspective	Robert Jones	
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Math for Aggregates

10:30 to 11:15	Round-Off Rules Calculator Operation Mean Standard Deviation Moving Average	Bob Rees	Chp 1
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Geology

11:15 to 12:00	Origin	Nelson Shaffer (Marni Karaf)	Chp 2
12:00 to 1:00	** LUNCH **		

Monday Afternoon
Moderator: Bob Rees

Aggregate Quality

1:00	Aggregate Types & Terms	Bob Rees	Chp 2
to		(Eric Woodings/ Brad Williamson)	
2:00	Properties		Chp 3
	Quality Requirements		Chp 4

2:00 to 2:15 ** BREAK **

Tests for Quality Rating

2:15	Absorption	Bob Rees	Chp 4/Chp 10
to		(Eric Woodings/ Brad Williamson)	
3:00	Abrasion Resistance		
	Soundness		
	Deleterious Materials		
	Special Requirements		

3:00 to 3:15 **BREAK**

Test for Quality Rating (continued)

3:15		Bob Rees	
to		(Eric Woodings/ Brad Williamson)	
4:00			

Help Session

7:30	Holiday Inn Express: Bob Lingerfelt/Trent Sanders Dave Hamilton/Deana Jones/Stu Schwotzer		
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Tuesday Morning
Moderator: Bob Rees

Math Homework Review

8:00 to 8:10	Answers & Discussion	Bob Rees	Handout
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Processing

8:10 to	Extraction	Bob Lingerfelt Jim Schultz George Williams	Chp 5
8:45	Crushing		
	Other Benefaction		
	Screening		
	Sand Production		
	Segregation		
	Stockpiling and Handling		
	Degradation		
	Contamination		
	Retrieval		

Segregation

8:45 To 9:00	Video	Dave Hamilton Lee Randell Kurt Sommer	
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Test Equipment

9:00 to 9:30	Suggestions	Stu Schwotzer (Jim Fletcher)	Chp 8
	Manufacturers & Cost		Handout

9:30 to 9:45 ** BREAK **

Test Equipment Verification

9:45 to 10:15	Procedures	Bart Williamson	Chp 8 ITM 211-9.0 Appendix A
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Tuesday Morning (continued)

Lab Layout

10:00 to	Suggestions	Bob Lingerfelt Jim Schultz George Williams
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10:30

Production Sampling

10:30 to	Sampling Techniques	Bob Lingerfelt Jim Schultz George Williams	Chp 9
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11:00

Stockpile Sampling

11:00 to	Safety	Dave Hamilton	Chp 9
11:30	Sampling Technique	Lee Randell Kurt Sommer	Chp 9/Video
	Sample Reduction & Sample Size		Chp 9/Video

Aggregate Testing

11:30 to	Decant	Dave Hamilton	Chp 10/Video
12:00	Sieve Analysis	Lee Randell Kurt Sommer	Chp 10/Video
	Sieve Analysis (Dense Graded)		Chp 10/Video
	Fineness Modulus		Chp 10
	Moisture		Chp 10
	Coarse Aggregate Angularity		Chp 10
	Non-Durable Particles		Chp 10
	Flat and Elongated Particles		Chp 10
	Frequency		Chp 11
	Homework Problems		Handouts

12:00 to 1:00

**** LUNCH ****

Tuesday Afternoon
Moderator: Bob Rees

Aggregate Testing (continued)

1:00 to 2:30		Dave Hamilton Lee Randell Kurt Sommer	Chp 10/Chp 11
2:30 to 2:45	** BREAK		

Aggregate Testing (continued)

2:45 to 3:30		Dave Hamilton Lee Randell Kurt Sommer	Chp 10/Chp11
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Diary

3:30 to 3:45	CAPP Requirements	Bob Rees	ITM 211 (10.0)
	Typical Day Examples	Bob Lingerfelt Jim Schultz George Williams	Chp 11

CAPP Coordinated Testing

3:45 to 4:00	Monthly Submittals	Bob Rees	ITM 211 (15.0)
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Help Session

7:30	Holiday Inn Express:	Bob Lingerfelt/Jon Havens Deana Jones/Rich Brooks/ George Williams Dave Hamilton/Stu Schwotzer	
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Wednesday Morning

Moderator: Bob Rees

Aggregate Testing Homework Review

8:00 to 8:15	Answers & Discussion	Bob Rees	Handout
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Quality Control Plans

8:15 to 9:00	CAPP QCP Requirements INDOT QCP Checklist QCP Addenda	Bob Rees	Chp 7 Chp 7
9:00 to 9:45	Stone Quarry QCP Gravel Pit QCP	Jon Havens (Trent Sanders) Rich Brooks	Chp 7 Chp 7

9:45 to 10:00 ** BREAK **

Aggregate Production Statistical Control

10:00 to 10:15	CAPP Requirements	Bob Rees	ITM 211
10:15 to 12:00	Statistical Quality Control Understanding the Process & Steps for Managing Quality Statistical Concepts Letter Counting Exercise	Jim Plew Chuck Sanders George Williams	Chp 6

12:00 to 1:00 ** LUNCH **

Wednesday Afternoon

Moderator: Bob Rees

Aggregate Production Statistical Control (continued)

1:00	Control Chart Concepts	Bob Rees/Chuck Sanders	Chp 6
to		(Bob Rees/Jim Plew/	ITM211 (13.4)
2:00	Control Chart Construction	George Williams/Mark Rademaker)	

Control Chart Interpretation

2:00	Z Value	Jim Plew	Chp 6
to		Chuck Sanders	
3:00		George Williams	

3:00 to 3:15 ** BREAK **

3:15	Product Set Up	Jim Plew	Chp 6
to	Process Control	Chuck Sanders	
5:00	Percent Compliance	George Williams	

5:00 ** DINNER **

Help Session

7:30	Holiday Inn Express:	Jim Plew/Chuck Sanders	
		Trent Sanders/Bob Lingerfelt/Mark Rademaker	
		Trina Smart/Jon Havens/ George Williams	
		Stu Schwotzer/Rich Brooks	

Thursday

Moderator: Bob Rees

Lab Demonstration at INDOT Materials Management

(Bus leaves at 7:30)

8:00
to
12:00

Bob Rees
Brad Williamson, Eric Woodings
Al Witty, Jim Plew
Trinia Smart, Stu Schwotzer
Bart Williamson

12:30 to 1:30

**** LUNCH ****

Statistical Homework Review

1:30
to
1:45

Answers & Discussion

Bob Rees

Handout

Computer Demonstration

1:45
to
2:15

Jon Havens
Trina Smart

Audits

2:15
to
2:30

INDOT Audits

Bob Rees

Appendix D

2:30 to 2:45

**** BREAK ****

Customer Expectations

2:45
to
3:15

Producer Perspective (CAPP)

George Williams
(Ken Wanstrath)

3:15
to
3:45

Contractor Perspective (PCCP)

Dick Newell

3:45
to
4:15

Contractor Perspective (HMA)

Dudley Bonte

Review Session (Voluntary)

4:00
to
5:00

Bob Rees

Help Session

6:30

Holiday Inn Express: Bob Lingerfelt/Jon Havens/ Jim Plew
Trent Sanders/John Yzenas/Stu Schwotzer
Trina Smart/George Williams/Rich Brooks

Friday Morning
Moderator: Bob Rees

Course Exam

8:00
to
12:00